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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/849,057	05/20/2004	Yoshinori Uchida	65933-088	6748
7590 11/30/2005 McDERMOTT, WILL & EMERY 600 13th Street, N.W. Washington, DC 20005-3096			EXAMINER	
			DESIR, PIERRE LOUIS	
			ART UNIT	PAPER NUMBER
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DATE MAILED: 11/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	10/849,057	UCHIDA, YOSHINORI		
Office Action Summary	Examiner	Art Unit		
	Pierre-Louis Desir	2681		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on 20 Ma	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-13 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on 20 May 2004 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examine 11) The oath or declaration is objected to by the Examine 11) The oath or declaration is objected to by the Examine 11) The oath or declaration is objected to by the Examine 11) The oath or declaration is objected to by the Examine 11 The oath or declaration is obje	vn from consideration. r election requirement. r. ⊠ accepted or b) □ objected to be drawing(s) be held in abeyance. See ion is required if the drawing(s) is objected.	e37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 06/16/2005.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:			

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DETAILED ACTION

Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claims 10-13 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claim 10 claims, "a program which makes a computer execute," which is directed to non-statutory subject matter. Computer programs claimed as computer listings per se, i.e., the descriptions or expressions of the programs are not physical "things." They are neither computer components nor statutory processes, as they are not "acts" being performed. Such claimed computer programs do not define any structural and functional interrelationships between the computer program and other claimed elements of a computer, which permit the computer program's functionality to be realized.

Note: for the process of examination, "a computer program which makes a computer execute:" will be interpreted as "a computer readable medium encoded with a computer program which makes the computer readable medium execute," and the remaining dependent claims (claims 11-13) will be interpreted accordingly.

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Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-13 rejected under 35 U.S.C. 102(b) as being anticipated by Olofsson et al. (Olofsson), U.S. Patent No. 6167031.

Regarding claim 1, Olofsson discloses a base station apparatus (see col. 7, lines 56-57) comprising: a communication unit which communicates with a terminal apparatus at variable transmission rates (see col. 5, line 50 to col. 6, line 2, and lines 27-37; col. 7, lines 31 to col. 8, line 2, and col. 8, lines 8-17); a channel allocation unit which allocates a channel to the terminal apparatus over a predetermined period (i.e., time period) (see col. 6, lines 37-40 and lines 49-51, and col. 8, lines 8-17); a change planning unit which plans timing for changing a transmission rate for the terminal apparatus in the channel-allocated period (see col. 6, lines 46-48, col. 8, lines 27-30, and col. 11, lines 12-22); and a change determination unit which determines whether or not it perform the change of the transmission rate for the terminal apparatus, based on the timing for changing the transmission rate planned by the change planning unit in the channel-allocated period (see col. 6, lines 49-65, col. 7, lines 11-17, and col. 11, line 63 to col. 12, line 17).

Regarding claim 2, Olofsson discloses a base station (see claim 1 rejection) further comprising a link quality derivation unit which derives link quality with respect to the terminal apparatus (see col. 4, line 42-to col. 5, line 2), wherein the change determination unit derives a

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remaining period of the channel for the case of changing the transmission rate, based on a length of the channel-allocated period and the planned timing for changing the transmission rate (see figs. 2-4, 8-9, and col. 6, line 37 to col. 7, line 17, col. 8, lines 9-35, col. 12, lines 12-47, and col. 12, lines 6-36), and further determines to perform the change of the transmission rate based on the derived link quality depending on the derived remaining period of the channel (see figs. 2-4, 8-9, and col. 6, line 37 to col. 7, line 17, col. 8, lines 9-35, col. 12, lines 12-47, and col. 12, lines 6-36).

Regarding claim 3, Olofsson discloses a base station (see claim 2 rejection) wherein for the link quality with respect to the terminal apparatus, the link quality derivation unit measures link quality based on a signal received from the terminal apparatus (see col. 8, lines 18-35, and col. 11, lines 12-47).

Regarding claim 4, Olofsson discloses a base station (see claim 2 rejection) wherein for the link quality with respect to the terminal apparatus, the link quality derivation unit detects information on link quality which is included in a signal received from the terminal apparatus (see col. 8, lines 18-35, and col. 11, lines 12-47).

Regarding claim 5, Olofsson discloses a transmission rate changing method (see abstract) comprising: making a plan for changing a transmission rate in a period during which a channel is allocated to a terminal apparatus (see col. 6, lines 49-65); and determining whether or not it perform the plan, through calculation using a criterion determined with consideration given to a drop in transmission efficiency resulting from the execution of the plan (see col. 7, lines 11-17, col. 11, line 63 to col. 12, line 17).

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Regarding claim 6, Olofsson discloses a transmission rate changing method (see abstract) comprising: allocating a channel to a terminal apparatus over a predetermined period (i.e., time period) (see col. 6, lines 37-40 and lines 49-51, and col. 8, lines 8-17); planning timing for changing a transmission rate for the terminal apparatus in the channel-allocated period (see col. 6, lines 46-48, col. 8, lines 27-30, and col. 11, lines 12-22); and determining whether or not to change the transmission rate at the planned timing based on the planned timing in the channel-allocated period (see col. 6, lines 49-65, col. 7, lines 11-17, and col. 11, line 63 to col. 12, line 17).

Regarding claim 7, Olofsson discloses a method (see claim 6 rejection) further comprising deriving link quality with respect to the terminal apparatus (see col. 4, line 42-to col. 5, line 2), wherein in determining whether or not to change the transmission rate at the planned timing based on the planned timing in the channel-allocated period, the remaining period of the channel for the case of changing the transmission rate is derived from a length of the channel-allocated period and the planned timing for changing the transmission rate in planning timing for changing a transmission rate (see figs. 2-4, 8-9, and col. 6, line 37 to col. 7, line 17, col. 8, lines 9-35, col. 12, lines 12-47, and col. 12, lines 6-36), and whether or not to perform the change of the transmission rate based on the derived link quality is determined depending on the derived remaining period of the channel (see figs. 2-4, 8-9, and col. 6, line 37 to col. 7, line 17, col. 8, lines 9-35, col. 12, lines 12-47, and col. 12, lines 6-36).

Regarding claim 8, Olofsson discloses a method (see claim 7 rejection) wherein in deriving the link quality with respect to the terminal apparatus, link quality based on a signal received from the terminal apparatus is measured as the link quality with respect to the terminal

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apparatus (see col. 8, lines 18-35, and col. 11, lines 12-47).

Regarding claim 9, Olofsson discloses a method (see claim 7 rejection) wherein in deriving the link quality with respect to the terminal apparatus, information on link quality included in a signal received from the terminal apparatus is detected as the link quality with respect to the terminal apparatus (see col. 8, lines 18-35, and col. 11, lines 12-47).

Regarding claim 10, Olofsson discloses a computer readable medium encoded with a computer program, which makes the computer readable medium execute allocating a channel to a terminal apparatus via a wireless network over a predetermined period i.e., time period) (see col. 6, lines 37-40 and lines 49-51, and col. 8, lines 8-17); planning timing for changing a transmission rate for the terminal apparatus in the channel-allocated period see col. 6, lines 46-48, col. 8, lines 27-30, and col. 11, lines 12-22); and determining whether or not to change the transmission rate at the planned timing based on the planned timing in the channel-allocated period (see col. 6, lines 49-65, col. 7, lines 11-17, and col. 11, line 63 to col. 12, line 17).

Regarding claim 11, Olofsson discloses a computer readable medium encoded with a computer program (see claim 10 rejection), which makes the computer readable medium further execute deriving link quality with respect to the terminal apparatus via the wireless network (see col. 4, line 42-to col. 5, line 2), wherein in determining whether or not to change the transmission rate at the planned timing based on the planned timing in the channel-allocated period, the remaining period of the channel for the case of changing the transmission rate is derived from a length of the channel-allocated period and the planned timing for changing the transmission rate in planning timing for changing a transmission rate (see figs. 2-4, 8-9, and col. 6, line 37 to col. 7, line 17, col. 8, lines 9-35, col. 12, lines 12-47, and col. 12, lines 6-36), and whether or not to

perform the change of the transmission rate based on the derived link quality is determined depending on the derived remaining period of the channel (see figs. 2-4, 8-9, and col. 6, line 37 to col. 7, line 17, col. 8, lines 9-35, col. 12, lines 12-47, and col. 12, lines 6-36).

Regarding claim 12, Olofsson discloses a computer readable medium (see claim 11 rejection) wherein in deriving the link quality with respect to the terminal apparatus via the wireless network, link quality based on a signal received from the terminal apparatus via the wireless network is measured as the link quality with respect to the terminal apparatus (see col. 8, lines 18-35, and col. 11, lines 12-47).

Regarding claim 13, Olofsson discloses a computer readable medium (see claim 11 rejection) wherein in deriving the link quality with respect to the terminal apparatus via the wireless network, information on link quality included in a signal received from the terminal apparatus via the wireless network is detected as the link quality with respect to the terminal apparatus (see col. 8, lines 18-35, and col. 11, lines 12-47).

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pierre-Louis Desir whose telephone number is (571) 272-779. The examiner can normally be reached on Monday-Friday 8:00AM- 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Feild can be reached on (571) 272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Pierre-Louis Desir

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